

# Class HW3Testbed

java.lang.Object  
application.HW3Testbed

public class HW3Testbed  
extends Object

HW3Testbed Class

## Constructor Summary

### Constructors

Constructor	Description
<a href="#">HW3Testbed()</a>	

## Method Summary

All MethodsStatic Methods

### Concrete Methods

Modifier and Type	Method	Description
static void	<a href="#">main(String [] args)</a>	Main method to execute all automated tests for the discussion board
static void	<a href="#">testMultipleAnswer()</a>	Test: Multiple answers to same question
static void	<a href="#">testProposeAnswer()</a>	Test: Student can propose answer to selected question
static void	<a href="#">testProposeAnswerWithoutQuestion()</a>	Test: System prevents answer without question
static void	<a href="#">testUpdateAnswer()</a>	Test: Student can update their

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Description

Constructor Summary

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**Constructor Details**

HW3Testbed()

## Method Details

main(String[])

testUpdateQuestion()

testUpdateAnswer()

testProposeAnswerToQuestion()

testProposeAnswerWithoutQue

testMultipleAnswersToQuestion

answer

static void      **testUpdateQuestio** Test: Student can  
update their  
question

**Methods inherited from  
class java.lang.Object**

equals , getClass , hashCode , notify , notifyAll  
, toString , wait , wait , wait

**Constructor Details****HW3Testbed**

```
public HW3Testbed()
```

**Method Details****main**

```
public static void main(String [] args)
```

Main method to execute all automated tests for the  
discussion board

**Parameters:**

args - command line arguments (not used)

**Since:**

1.0

**testUpdateQuestion**

```
public static void testUpdateQuestion()  
throws
```

[SQLException](#)

Test: Student can update their question

Creates a test question, updates its content, and verifies  
the changes persist in the database.

**Throws:**



`SQLException` - if database operations fail during test execution

`AssertionError` - if any test verification fails

**Since:**

1.0

### **testUpdateAnswer**

```
public static void testUpdateAnswer()  
                                throws SQLException
```

Test: Student can update their answer

Creates a test answer, updates its content, and verifies the changes persist in the database.

**Throws:**

`SQLException` - if database operations fail during test execution

`AssertionError` - if any test verification fails

**Since:**

1.0

### **testProposeAnswerToQuestion**

```
public static void testProposeAnswerToQuestion()  
                                throws  
                                SQLException
```

Test: Student can propose answer to selected question

Creates a test question and associates an answer with it, then verifies the association is correctly stored.

**Throws:**

`SQLException` - if database operations fail during test execution

`AssertionError` - if any test verification fails

**Since:**

1.0

### **testProposeAnswerWithoutQuestion**

```
public  
static void testProposeAnswerWithoutQuestion()
```

throws `SQLException`

Test: System prevents answer without question

Attempts to create an answer without a valid question reference and verifies the system properly rejects the operation.

**Throws:**

`SQLException` - if database operations fail during test execution

`AssertionError` - if test logic fails unexpectedly

**Since:**

1.0

### testMultipleAnswersToQuestion

```
public
static void testMultipleAnswersToQuestion()
                                                    throws
SQLException
```

Test: Multiple answers to same question

Creates multiple answers for a single question and verifies all answers are correctly associated and retrievable.

**Throws:**

`SQLException` - if database operations fail during test execution

`AssertionError` - if any test verification fails

**Since:**

1.0